

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Division of Serial No. 08/949,286

Applicant : TOSHIHIKO KITAZAWA

Filed : Herewith

For : REPEAT USE DATA INSERTING APPARATUS AND DIGITAL
BROADCAST TRANSMITTING SYSTEM

Examiner :

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PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

Sir:

Before the issuance of the first Official Action, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please amend the specification as follows:

Page 1, after line 2: Please insert--CROSS-REFERENCE TO RELATED APPLICATION

This is a division of U.S. application Serial No. 09/949,286, filed October 21, 1997.--

IN THE CLAIMS:

Please amend the claims as follows:

Cancel claims 1-9.

Add the following new claims.

--10. An apparatus for generating a transport stream from a plurality of source video data and a plurality of source audio data, the apparatus comprising:

encoding means for encoding said plurality of source video data to generate encoded video streams and for encoding said plurality of source audio data to generate encoded audio streams;

server means for supplying a plurality of commercial data comprising encoded streams;

buffer means for temporarily buffering said commercial data supplied from said server means;

multiplexing means for multiplexing said encoded video streams, said encoded audio streams and said commercial data; and

control means for controlling a multiplexing schedule of said multiplexing means to generate said transport stream based on data sizes of said encoded video streams, said encoded audio streams and said commercial data.--

--11. A method for generating a transport stream from a plurality of source video data and a plurality of source audio data, comprising the steps of:

encoding said plurality of source video data to generate encoded video streams and encoding said plurality of source audio data to generate encoded audio streams;

supplying a plurality of commercial data comprising encoded streams to a buffer;

buffering said commercial data in said buffer;

multiplexing said encoded video streams, said encoded audio streams and said commercial data; and

controlling a multiplexing schedule of said multiplexing to generate said transport stream based on data sizes of said encoded video streams, said encoded audio streams and said commercial data.--

--12. An apparatus for transmitting television programs comprising a plurality of source video data and a plurality of source audio data, the apparatus comprising:

encoding means for encoding said plurality of source video data to generate encoded video streams and for encoding said plurality of source audio data to generate encoded audio streams;

server means for supplying a plurality of commercial data comprising encoded streams;

buffer means for temporarily buffering said commercial data supplied from said server means;

multiplexing means for multiplexing said encoded video streams, said encoded audio streams and said commercial data;

control means for controlling a multiplexing schedule of said multiplexing means to generate a transport stream based on data sizes of said encoded video streams, said encoded audio streams and said commercial data; and

means for transmitting said transport stream.--

--13. A method for transmitting television programs comprising a plurality of source video data and a plurality of source audio data, comprising the steps of:

encoding said plurality of source video data to generate encoded video streams and encoding said plurality of source audio data to generate encoded audio streams;

supplying a plurality of commercial data comprising encoded streams to a buffer;

buffering said commercial data in said buffer;

multiplexing said encoded video streams, said encoded audio streams and said commercial data;

controlling a multiplexing schedule of said multiplexing to generate a transport stream based on data sizes of said encoded video streams, said encoded audio streams and said commercial data; and

transmitting said transport stream.--

--14. An apparatus for generating a transport stream from a plurality of source video data and a plurality of source audio data, the apparatus comprising:

encoding means for encoding said plurality of source video data to generate encoded video streams and for encoding said plurality of source audio data to generate encoded audio streams;

server means for supplying a plurality of commercial data comprising encoded streams;

buffer means for temporarily buffering said commercial data supplied from said server means; and

multiplexing means for multiplexing said encoded video streams, said encoded audio streams and said commercial data in order to generate said transport stream and for adding a system clock reference and/or a program clock reference to said transport stream to enable said encoded video streams, said encoded audio streams and said commercial data to be decoded at a timing determined by said system clock reference and/or said program clock reference.--

--15. A method for generating a transport stream from a plurality of source video data and a plurality of source audio data, comprising the steps of:

encoding said plurality of source video data to generate encoded video streams and encoding said plurality of source audio data to generate encoded audio streams;

supplying a plurality of commercial data comprising encoded streams to a buffer;

buffering said commercial data in said buffer;

multiplexing said encoded video streams, said encoded audio streams and said commercial data in order to generate said transport stream; and

adding a system clock reference and/or a program clock reference to said transport

stream to enable said encoded video streams, said encoded audio streams and said commercial data to be decoded at a timing determined by said system clock reference and/or said program clock reference.--

--16. An apparatus for transmitting television programs including a plurality of source video data and a plurality of source audio data, the apparatus comprising:

encoding means for encoding said plurality of source video data to generate encoded video streams and for encoding said plurality of source audio data to generate encoded audio streams;

server means for supplying a plurality of commercial data comprising encoded streams;

buffer means for temporarily buffering said commercial data supplied from said server means;

multiplexing means for multiplexing said encoded video streams, said encoded audio streams and said commercial data in order to generate a transport stream and for adding a system clock reference and/or a program clock reference to said transport stream; and

means for transmitting said transport stream, wherein said encoded video streams, said encoded audio streams and said commercial data included in a transmitted transport stream will be decoded at a timing determined by said system clock reference and/or said program clock reference.--

--17. A method for transmitting television programs including a plurality of

source video data and a plurality of source audio data, comprising the steps of:

encoding said plurality of source video data to generate encoded video streams
and encoding said plurality of source audio data to generate encoded audio streams;
supplying a plurality of commercial data comprising encoded streams to a buffer;
buffering said commercial data in said buffer;
multiplexing said encoded video streams, said encoded audio streams and said
commercial data in order to generate a transport stream;
adding a system clock reference and/or a program clock reference to said transport
stream; and
transmitting said transport stream, wherein said encoded video streams, said
encoded audio streams and said commercial data included in a transmitted transport stream will
be decoded at a timing determined by said system clock reference and/or said program clock
reference.--

--18. An apparatus for generating a transport stream from a plurality of source
video data and a plurality of source audio data, the apparatus comprising:

encoding means for encoding said plurality of source video data to generate
encoded video streams and for encoding said plurality of source audio data to generate encoded
audio streams;

server means for supplying a plurality of commercial data comprising encoded
streams;

buffer means for temporarily buffering said commercial data supplied from said

server means; and

multiplexing means for multiplexing said encoded video streams, said encoded audio streams and said commercial data in order to generate said transport stream and for adding a decoding time stamp and/or a presentation time stamp to said transport stream to enable said encoded video streams, said encoded audio streams and said commercial data to be decoded at a timing determined by said decoding time stamp and/or said presentation time stamp.--

--19. A method for generating a transport stream from a plurality of source video data and a plurality of source audio data, comprising the steps of:

encoding said plurality of source video data to generate encoded video streams and encoding said plurality of source audio data to generate encoded audio streams;

supplying a plurality of commercial data comprising encoded streams to a buffer;

buffering said commercial data in said buffer;

multiplexing said encoded video streams, said encoded audio streams and said commercial data in order to generate said transport stream; and

adding a decoding time stamp and/or a presentation time stamp to said transport stream to enable said encoded video streams, said encoded audio streams and said commercial data to be decoded at a timing determined by said decoding time stamp and/or said presentation time stamp.--

--20. An apparatus for transmitting television programs including a plurality of source video data and a plurality of source audio data, the apparatus comprising:

encoding means for encoding said plurality of source video data to generate encoded video streams and for encoding said plurality of source audio data to generate encoded audio streams;

server means for supplying a plurality of commercial data comprising encoded streams;

buffer means for temporarily buffering said commercial data supplied from said server means;

multiplexing means for multiplexing said encoded video streams, said encoded audio streams and said commercial data in order to generate a transport stream and for adding a decoding time stamp and/or a presentation time stamp to said transport stream; and

means for transmitting said transport stream, wherein said encoded video streams, said encoded audio streams and said commercial data included in a transmitted transport stream will be decoded at a timing determined by said decoding time stamp and/or said presentation time stamp.--

--21. A method for transmitting television programs including a plurality of source video data and a plurality of source audio data, comprising the steps of:

encoding said plurality of source video data to generate encoded video streams and encoding said plurality of source audio data to generate encoded audio streams;

supplying a plurality of commercial data comprising encoded streams to a buffer;

buffering said commercial data in said buffer;

multiplexing said encoded video streams, said encoded audio streams and said

commercial data in order to generate a transport stream;

adding a decoding time stamp and/or a presentation time stamp to said transport stream; and

means for transmitting said transport stream, wherein said encoded video streams, said encoded audio streams and said commercial data included in a transmitted transport stream will be decoded at a timing determined by said decoding time stamp and/or said presentation time stamp.--

REMARKS


This amendment is submitted prior to examination of the above-identified application. Claims 1-9 are replaced by new claims 10-21 to better define applicant's invention. The new claims are in full compliance with 35 U.S.C. § 112 and are consistent with U.S. practice. It is respectfully submitted that these newly presented claims find support in the application as originally filed and therefore present no new matter.

Please charge any additional fees required for this amendment or credit any overpayment to Deposit Account No. 50-0320.

Early and favorable consideration is respectfully requested.

Respectfully submitted,

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